

ABSTRACT OF THE DISCLOSURE:

A mono-color signal converter extracts a mono-color signal in terms of the CMY system from RGB signals. A histogram generator generates a density histogram based on the density of the pixels in the digital image. At the same time, based on the thresholds determined previously, determination areas for the background density and maximum density are formed. A density class extracting portion extracts the density class of the background density and the density class of the maximum density. Based on the result from the density class extracting portion, a density correction curve generator generates a density correction curve. When the density correction curve needs to be adjusted as desired, the starting point and end point of the density correction curve are renewed through a first correction value and second correction value setting portion. A signal converter converts the mono-color signal into the K-signal.